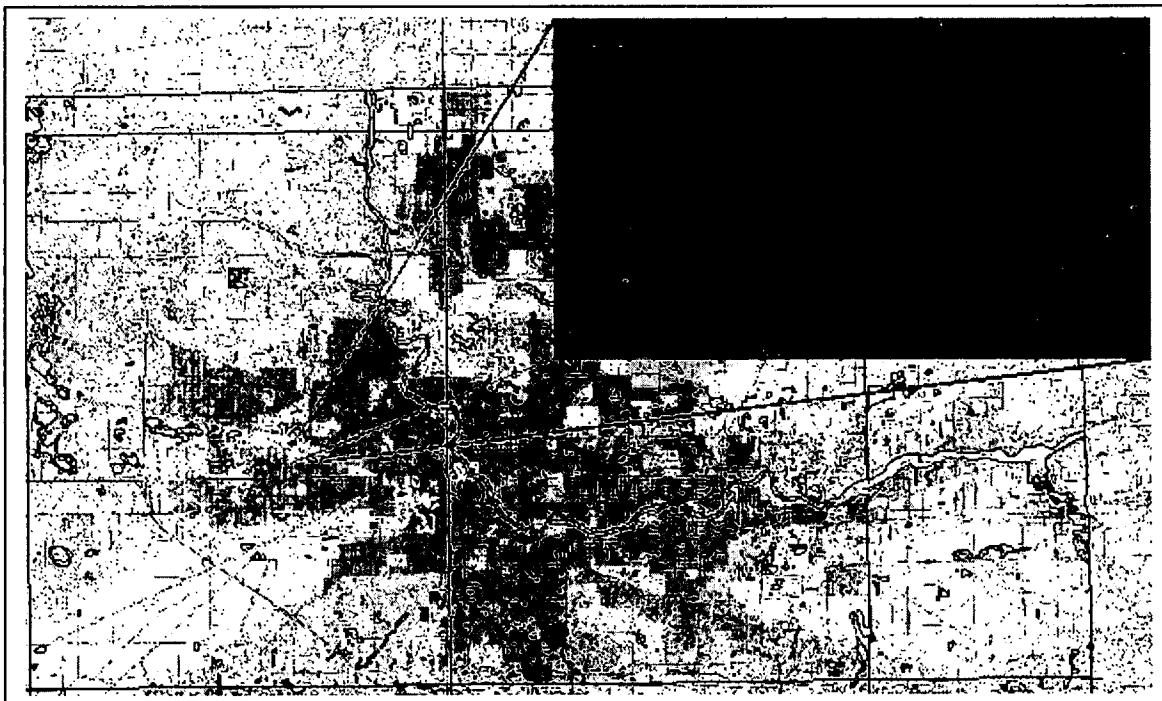




**CHARACTERIZATION OF FISH COMMUNITY AND
TISSUE CHEMISTRY
OF
BECK LAKE, LA SALLE PARK,
SOUTH BEND, ST. JOSEPH COUNTY, INDIANA**

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Office of Land Quality



CHARACTERIZATION OF FISH COMMUNITY AND TISSUE CHEMISTRY OF BECK LAKE, LA SALLE PARK, SOUTH BEND, ST. JOSEPH COUNTY, INDIANA

Introduction

Beck Lake is a small man-made lake located at the east end of La Salle Park at 3419 West Washington Street, South Bend, St. Joseph County, Indiana (Figure 1). The Indiana Department of Environmental Management (IDEM) Natural Resource Damage (NRD) Program of the Federal Programs Section was requested to help characterize fish in Beck Lake, specifically to determine if contaminants, primarily metals, found in sediments were of sufficient concentrations in fish to cause concern to ecological receptors and to humans eating fish caught from the lake/pond. On May 20, 2003, the IDEM NRD Program and the U.S. Fish and Wildlife Service, Bloomington Field Office conducted a survey of the fish assemblage and collected sufficient fish to characterize chemical contaminants in both whole fish and edible portions of fish as skin on, scaled fillets.

Sample Site

The 6.03 acre (\approx 2.44 hectare – size determined by measure of aerial photographs) man-made lake is relatively shallow, ranging in depth (determined by staff pole) from about 6 inches (0.15 m) on the north and east shores to approximately 4 feet (1.2 m) near a concrete dam and spillway on the south shoreline. Shoreline vegetation consisted of cattails (*Typha latifolia*) on the east, south, west and northwest sides; the north east shore was characterized by over-hanging willow trees (*Salix nigra*), button bush (*Cephalanthus occidentalis*) and rushes (*Juncus sp.*). Mowed lawn with a few scattered trees (*Populus sp.*) characterized the park surrounding the lake. Shallow areas of the pond contained thick growths of pondweed (*Potamogeton sp.*). A capped landfill area was located to the west edge of the lake. A fishing pole, bait boxes and snagged bobbers (floats) indicated relatively frequent use of the pond as a fishing spot by park visitors.

Methods

Sampling - An 800 m site (x-point latitude $41^{\circ} 40' 38.002\ 31''$; longitude $86^{\circ} 17' 31.033\ 71''$) was established to characterize the habitat of Beck Lake. This site was evaluated for fish assemblage structure and function using pulsed DC boat mounted electro-fishing equipment. The Smith Root system was set to produce 500-1000 volts, pulse rate of 60 pulses per second, to maintain amperage at 6 Amps. Fish were collected for 5,293 seconds. Fish collected by netting were placed in an on-board holding tank until sampling was completed. All fish were counted,



Figure 1. Aerial photograph (top) and topographical map indicating shape and general location of Beck Lake in LaSalle Park, South Bend, St. Joseph County, Indiana. Fish survey "X-point" was located near the northwest corner of the lake at UTM coordinates 558934.28 (Easting) and 4614181.80 (Northing) [Lat $41^{\circ} 40' 38.002''$ N; Long $86^{\circ} 17' 31.033''$ W].

measured for minimum and maximum total length (ml TL), batch weighed (g), and inspected for deformities, eroded fins, lesions, and tumor (DELT) anomalies. Fish collected for chemical testing were placed on ice in plastic bags until processing. A total of 25 common carp (*Cyprinus carpio*), five Goldfish (*Carassius auratus*) and 20 each of Pumpkinseed (*Lepomis gibbosus*) and Green Sunfish (*Lepomis cyanellus*) were collected for chemical analyses. Twenty Pumpkinseed, three Bluegill (*Lepomis macrochirus*) and 32 Green Sunfish were collected as voucher specimens. Voucher specimens were fixed in 10% buffered formalin. Voucher specimens were preserved in 70% Ethanol and stored at the Indiana Aquatic Research Center of Indiana Biological Survey in Bloomington. All other fish were identified in the field and released unharmed into the lake.

General chemical/physical water quality parameters were measured in the field using a Hydrolab multiprobe DataSonde® 4a and MiniSonde® 4a. The multiprobe instrument was calibrated prior to use following standard operating procedures outlined in the DataSonde 4 and MiniSonde Water Quality Multiprobes User's Manual, Revision D (with Addendums to Revision C, E and G), August 1997.

Laboratory Analyses - Samples of Carp and Goldfish scaled, skin-on fillets were prepared as composites of 5 fish (all within 90% of total average length and weight). Fish for each sample were processed on a flat surface covered with food grade aluminum foil, rinsed in tap water, double wrapped in aluminum foil, placed in plastic zip-lock bags and then frozen (-60° C) until delivery to the laboratory for analyses. Equipment used for processing was pre-cleaned and dedicated to each sample. Composites of 20 whole Pumpkinseed and Green Sunfish were submitted for chemical analyses. These samples were double wrapped in food grade aluminum foil, placed in plastic zip-lock bags and frozen until delivery to the Laboratory. An IDEM sample control number was assigned and recorded on field sheets, chain-of-custody sheets, the foil wrappings and the plastic bag of each sample. Samples were submitted to En Chem. Inc. Green Bay, Wisconsin for analyses for RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Semi Volatile Organic Compounds (SVOCs), percent Solids and Lipids, Polychlorinated Biphenyls (PCBs) as Aroclors and Congeners, and Organochlorine Pesticides.

Laboratory prepared and extracted samples were analyzed as follows: SVOCs by method SW846-8270C; PAHs by method SW846-8270-SIM; Metals by SW846-6020; Organochlorine Pesticides by SW846-8081A; PCB Aroclors by method SW846-8082 and PCB Congener by EPA method 1668A. Percent Solids were analyzed by SM 2540G M and Percent Lipids using an internal EN Chem method (no number provided). The Laboratory utilized an aliquot of IDEM submitted Carp sample as a field duplicate and for matrix spike/matrix spike duplicate for quality control.

Analytical results for all samples were validated by IDEM Chemistry Section staff according to the quality criteria contained in Broad Agency Announcement 2-003 and Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) Third Edition, Update III. A copy of the validation memorandum is included as Appendix B.

Results

Fish Assemblage - A total of 294 individuals representing seven fish species (including Carp/Goldfish hybrid) were collected from Beck Lake on May 20, 2003 (Table 1). Common Carp was the dominate fish species by number (56.5%) and weight (75.7%). Minnow species (Carp, Goldfish and Carp/Goldfish Hybrid) made up 56.5% of individuals and 97.1% of total weight (81,447.3 g) of fish collected. Sunfish comprised 43.5% of total individuals with Green Sunfish (21.8%) and Pumpkinseed (18.4%) being the most abundant. No DELT anomalies were noted but all sunfish species were of small size (maximum TL of 126 mm).

Table 1. Species Collected During an Assessment of Beck Lake, La Salle Park, South Bend Parks and Recreation, St. Joseph County, Indiana.

Species	Beck's Lake Site		
	No.	Length (mm)	Weight (g)
Goldfish, <i>Carassius auratus</i>	14	238-390 mm TL	7739.3
Common Carp, <i>Cyprinus carpio</i>	134	126-514 mm TL	61654.8
Carp/Goldfish Hybrid	18	300-350 mm TL	9678.6
Green sunfish, <i>Lepomis cyanellus</i>	64	47-115 mm TL	712.2
Pumpkinseed, <i>Lepomis gibbosus</i>	54	50-126 mm TL	653.9
Longear Sunfish, <i>Lepomis megalotis</i>	8	20-26 mm TL	6.9
Bluegill, <i>Lepomis macrochirus</i>	2	32-52 mm TL	1.6
Total Species	7		
Total number of individuals	294		
Total Weight	81447.3		
DELT anomalies	0		

Index of Biotic Integrity score - The biological integrity of Beck Lake as compared to other natural lakes in northern Indiana rated as "poor" with an Index of Biotic Integrity (IBI) score of 27 (Table 2). A relatively high number of species (6), the number of Centrarchid species (4), the relative abundance (294) and the lack of DELT anomalies compared favorably to reference lakes, but the number of minnow species (2), % carnivores (0), number of sensitive species (0), and % of individuals as simple lithophils (0) reduced the IBI score to "poor".

General Water Quality - A single screening level water quality sample was collected in water approximately 1-foot deep near the north shore of Beck Lake. Results of the multiprobe measurements are presented in Table 3. Water quality as measured by this single sample did not indicate significant problems for aquatic life. Ammonium, Temperature, pH, Total Dissolved Solids and Dissolved Oxygen were above Great Lakes water quality standards: minimum surface water quality criteria for aquatic life (see Table 3 and Indiana Water Rules at 327 IAC 2-1.5-8(c)). Dissolved Oxygen (4.99 mg/L) is just below the minimum average concentration (5.0 mg/L), but well above the minimum concentration (4.0 mg/L) allowed at any time.

Table 2. Index of Biotic Integrity Scores for Beck Lake Based on Inland Lakes Calibrated for Northern and Central Indiana. Reference Condition Expectations for 10 HA Lakes are Based on the Score of “3” (Simon, et al., 2000).

Metric	Reference Condition	Site Scores	
		Raw Value	IBI Score
Number of Species	Varies with Surface Area	6	5
Number of Centrarchid species	3-4	4	4
Number of minnow species	3-4	2	1
% individuals as lake obligate species	34-66%	0	0
% individuals as omnivores	15-30%	55.7	3
% individuals as insectivores	33-66%	44.3	3
% individuals as carnivores	5-15%	0	0
Number of sensitive species	3-4	0	0
% individuals as tolerant species	15-30%	77.9	1
Relative Abundance	150-300	294	5
% individuals as simple lithophils	5-10%	0	0
% individuals with DELT anomalies	0.1-0.3%	0	5
TOTAL IBI SCORE			27
IBI CLASSIFICATION			“Poor”

Table 3. General Physical/Chemical Measurements of Water Quality of Beck Lake, La Salle Park, South Bend, St. Joseph County, Indiana, May 20, 2003.

Water Quality Parameter	Units	Result	GL-WQC*
Temperature	° F	64.7	<75
Dissolved Oxygen	%	52.8	NA
Dissolved Oxygen	mg/L	4.99	>4.0 (5.0 Average)
Conductivity	µs/cm	253.1	NA
pH	units	8.06	6.0 > 9.0
Total Dissolved Solids	mg/L	0.1621	NA
Nitrate	mg/L	2.86	NA
Turbidity	NTU	44.7	NA
Ammonium	mg/L	0.13	<4.457 (1.016**)
Oxidation-Reduction Potential	mV	400	NA

* Great Lakes Water Quality Standards: criteria for aquatic life

** Criterion Maximum Concentrations (Criterion Continuous Concentrations) for Total Ammonia (as N)

APPENDIX A

Results of Chemical Analyses of Fish Tissue collected May 2003 from
Beck Lake, LaSalle Park, South Bend, St. Joseph County, Indiana

ITEM No. Species Tissue	LQ0483 Pumpkinseed Whole (20)		LQ0484 Green Sunfish Whole (20)		LQ0485 Carp Fillet (5)		LQ0486 Carp Fillet (5)		LQ0487 Goldfish Fillet(5)		LQ0488 Carp Fillet (5)		LQ0489 Carp Fillet (5)		LQ0490 Carp Fillet (5)		LQ0491* Carp Fillet (5)		
	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Solids	Length_Ave	mm	75	97.5		448.8		393.2		315.4		288.4		375.4		345.8		393.2	
	Weight_Ave	g	22	19.9		1077.26		901.5		413.9		334.5		682.8		584		901.5	
	Weight_Tot	g	439.4	396.9		5386.3		4507.6		2069.5		1672.6		3413.8		2920		4507.6	
	Lipids	%	24.2	23.7		18.1		19.5		19.7		18.2		19.3		19.4		19.3	
PCB ANALOGUES																			
Aroclor 1016	ug/kg	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U		
Aroclor 1221	ug/kg	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U		
Aroclor 1232	ug/kg	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U		
Aroclor 1242	ug/kg	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U	<50	U		
Aroclor 1248	ug/kg	<50		<50		<50		<50		<50		<50		<50		<50			
Aroclor 1254	ug/kg	130	U	97	U	59	U	92	U	78	U	60	U	58	U	95	U		
Aroclor 1260	ug/kg	65		60		54		65		56		50		56		71			
Total PCBs	ug/kg	200		160		110		160		130		110		110		170			
PCB ANALOGUES																			
2,4' - DiCB 8	ng/kg	93.5		50.1		11		48.9		31.7		16.2		16.9		56.1	D	56.5	
2,2',5 - TriCB 18 (+30)	ng/kg	419	J+	266	J+	66.3	J+	265	J+	181	J+	103	J+	134	J+	345	J+D	315	J+
2,3,3' - TriCB 20 (+28)	ng/kg	3030	J+	1740	J+	359	J+	1680	J+	1180	J+	587	J+	624	J+	1770	J+D	1910	J+
3,3,4' - TriCB 37	ng/kg	148		91.7		14.4		57.6	KD	42		23.1		23.0		62.2	D	64.4	
2,2',3,5' - TeCB 44 (+47+65)	ng/kg	3070	J+	2000	J+	784	J+	2790	J+	1830	J+	1120	J+	1150	J+	2480	J+D	2940	J+
2,2',4,5' - TeCB 49 (+69)	ng/kg	3230	J+	1900	J+	632	J+	2500	J+	1680	J+	890	J+	920	J+	2070	J+D	2620	J+
2,2',5,5' - TeCB 52	ng/kg	5140	J+	4020	J+	1190	J+	4320	J+	2540	J+	1710	J+	1780	J+	3960	J+D	4520	J+
2,3,4,5 - TeCB 61 (+70+74+76)	ng/kg	8510	J+D	4720	J+	1730	J+	5970	J+D	4470	J+	2380	J+	2320	J+	5360	J+D	6120	J+D
2,3',4,4' - TeCB 66	ng/kg	5770	J+	3490	J+	1320	J+	4210	J+	3180	J+	1770	J+	1660	J+	4280	J+D	4290	J+
3,3',4,4' - TeCB 77	ng/kg	201		146		24.2		76.3		46		39.6		39.2		56.7	KD	71.5	
3,4,4',5 - TeCB 81	ng/kg	14	K	8.54	K	3.67	K	10.5	K	8.29	K	4.88	K	4.05	K	9.95	D	9.49	K
2,2',3,4,5 - PeCB 86 (+87+97+108+119+125)	ng/kg	5790		3350		2070		3750		2990		2660		2410		3150	D	3740	
2,2',3,4',5 - PeCB 90 (+101+113)	ng/kg	9840	D	7280	D	3940		6790	D	4900		4780		4420		5610	D	6290	D
2,3,3',4,4' - PeCB 105	ng/kg	3390		2440		1290		2750		2100		1520		1340		2200	D	2720	
2,3,4,4',5 - PeCB 114	ng/kg	220		162	D	90.5		169	D	127		99.3		91.6		142	D	166	
2,3",4,4',5 - PeCB 118	ng/kg	9390	D	5980		3850		6980		5300	D	4250		3960		5950	D	6880	D
2',3,4,4',5 - PeCB 123	ng/kg	178		151		74.4		160		119		88.7		77.9		124	D	147	
3,3',4,4',5 - PeCB 126	ng/kg	30.6		29.9		10.9	KD	27.8		20.6		13.6		11.1		22.1	D	27.5	
2,2',3,3',4,4' - HxCB 128 (+166)	ng/kg	1980	J+	1740	J+	1050	J+	1650	J+	1250	J+	1100	J+	1040	J+	1380	J+D	1800	J+
2,2',3,3',4,5 - HxCB 129 (+138+160+163)	ng/kg	16300	J+D	12500	J+D	8110	J+	12500	J+D	10100	J+	8140	J+	8280	J+	10000	J+D	11900	J+D
2,2',3,3',5,6' - HxCB 135 (+151+154)	ng/kg	2090	J+	1780	J+	767	J+	2070	J+	1470	J+	1050	J+	1050	J+	1630	J+D	2070	J+
2,2',4,4',5,5' - HxCB 153 (+168)	ng/kg	15200	J+D	11900	J+D	8810	J+	12100	J+D	11000	J+	8690	J+	9130	J+	9360	J+D	12100	J+D
2,3,3',4,4',5 - HxCB 156 (+157)	ng/kg	1280	J+	986	J+	609	J+	960	J+	747	J+	628	J+	605	J+	814	J+D	933	J+



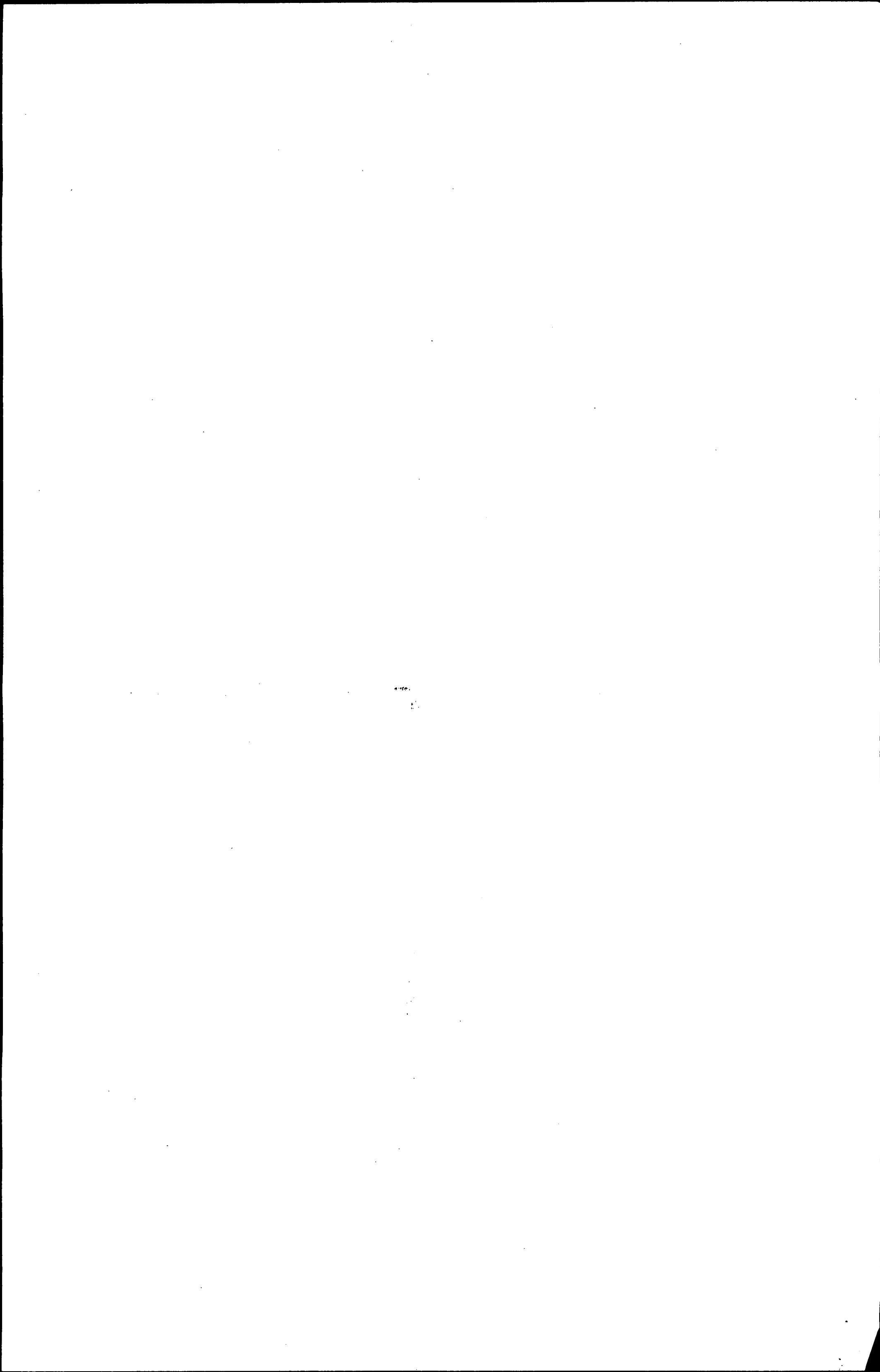
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Continued

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	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
PCB CONGENERS (WHO/AC/90/100 CONGENERS)																			
2,3,3',4,4',6 - HxCB 158	ng/kg	1490	J+	1110	J+	714	J+	1130	J+	841	J+	709	J+	709	J+	920	J+D	1150	J+
2,3',4,4',5,5' - HxCB 167	ng/kg	553		449		307		402		315		275		275		326	D	397	
3,3',4,4',5,5' - HxCB 169	ng/kg	<0.784	U	<7.90	U	<4.96	U	<8.91	U	<6.70	U	<5.42	U	<4.92	U	<9.28	UD	<6.90	U
2,2',3,3',4,4',5 - HpCB 170	ng/kg	2550	J+	2120	J+	1660	J+	2180	J+	1570	J+	1510	J+	1320	J+	1530	J+D	2010	J+
2,2',3,4,4',5,5' - HpCB 180 (+193)	ng/kg	6110	J+D	5820	J+	4950	J+	6280	J+D	5060	J+	4180	J+	4220	J+	4590	J+D	5470	J+
2,2',3,4,4',5,6 - HpCB 183 (+185)	ng/kg	2040	J+	1790	J+	1430	J+	2130	J+	1600	J+	1260	J+	1250	J+	1470	J+D	1940	J+
2,2',3,4,4',6,6' - HpCB 184	ng/kg	2.74	J+	2.8	J+	1.66	J+	2.25	J+KD	2.1	J+	1.55	J+	1.68	J+	2.07	J+KD	2.3	J+
2,2',3,4,5,5',6 - HpCB 187	ng/kg	4580	J+	4510	J+	2200	J+	2800	J+	2180	J+	2000	J+	2150	J+	2390	J+D	2800	J+
2,3,3',4,4',5,5' - HpCB 189	ng/kg	84.6	J+	73.4	J+	61.2	J+	64.4	J+	51.1	J+	49.6	J+	53.6	J+	51.9	J+D	62.4	J+
2,2',3,3',4,4',5,6 - OcCB 195	ng/kg	222	J+	250	J+	276	J+	255	J+	217	J+	206	J+	241	J+	225	J+D	255	J+
2,2',3,3',4,5,6,6' - OcCB 201	ng/kg	117	J+	108	J+	92.2	J+	112	J+	95.8	J+	75.2	J+	91.2	J+	92.4	J+D	109	J+
2,2',3,3',4,4',5,5',6 - NoCB 206	ng/kg	382		436		531		466		412		395		468		408	D	458	
2,2',3,3',4,4',5,5',6,6' - DeCB 209	ng/kg	102	J+	108	J+	174	J+	154	J+	157	J+	136	J+	160	J+	142	J+D	156	J+
Total PCB Congeners		113547.44		83508.44		49203.43		87810.75		67813.59		52460.73		52026.23		72979.42		86500.09	
TEQ Analysis, WHO 1998 TEF, U=1/2 DL		5.14		4.49		1.99		4.4		3.29		2.35		2.03		3.58		4.32	
PBS CONGENERS																			
2,4'-DDD	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
2,4'-DDE	ug/kg	<5.0	U	<5.0	U	<5.6	U	<5.0	U	<5.0	U	<17	U	<5.0	U	<5.0	U	<5.0	U
2,4'-DDT	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
4,4'-DDD	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
4,4'-DDE	ug/kg	14		15		6		11		7.4		<5.0	U	13		9.4		15	
4,4'-DDT	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Aldrin	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<5.0	U	<2.5	U	<2.5	U	<2.5	U
alpha BHC	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U
alpha-Chlordane	ug/kg	<2.5	U	<2.5	U	<2.5	U	4.8		3.6		<2.5	U	<2.5	U	4.2		5.6	
beta-BHC	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U
Cis-nonachlor	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
delta-BHC	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U
Dieldrin	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Endosulfan I	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U
Endosulfan II	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Endosulfan sulfate	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Endrin	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Endrin aldehyde	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
Endrin ketone	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
gamma-BHC (Lindane)	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	3.2		<2.5	U	<2.5	U	<2.5	U	<2.5	U
gamma-Chlordane	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U			<2.5	U	<2.5	U	3		3.3	



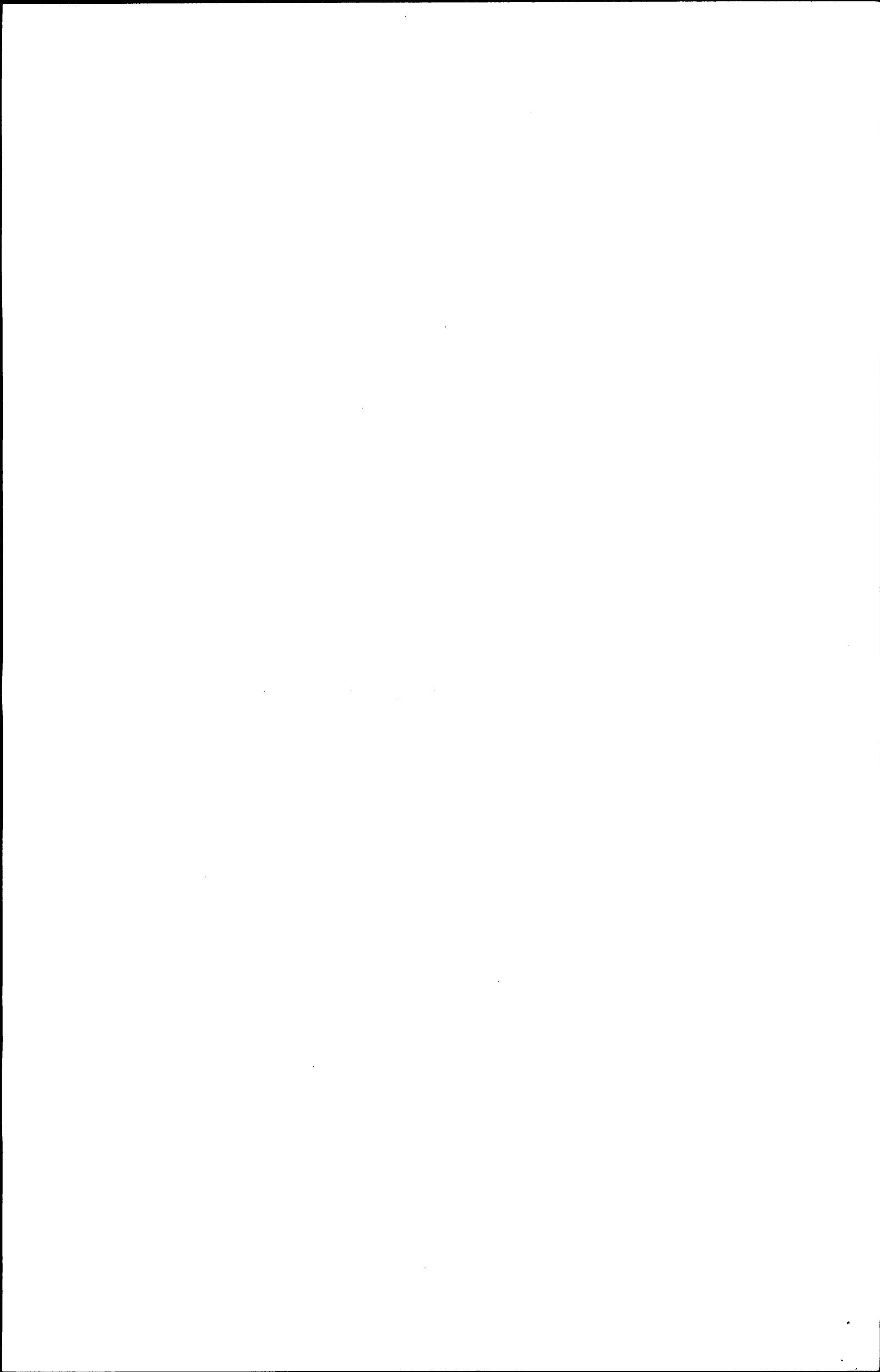
APPENDIX A
Continued

IDEM No. Species Tissue	LQ0483 Pumpkinseed Whole (20)		LQ0484 Green Sunfish Whole (20)		LQ0485 Carp Fillet (5)		LQ0486 Carp Fillet (5)		LQ0487 Goldfish Fillet(5)		LQ0488 Carp Fillet (5)		LQ0489 Carp Fillet (5)		LQ0490 Carp Fillet (5)		LQ0491* Carp Fillet (5)		
	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
PESTICIDES																			
Heptachlor	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U		
Heptachlor epoxide	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U		
Hexachlorobenzene	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U		
Methoxychlor	ug/kg	<25	U	<25	U	<25	U	<25	U	<25	U	<25	U	<25	U	<25	U		
Oxychlordane	ug/kg	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U		
Pentachloroanisole	ug/kg	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<2.5	U		
Toxaphene	ug/kg	<250	U	<250	U	<250	U	<250	U	<250	U	<250	U	<250	U	<250	U		
Trans-nonachlor	ug/kg	7.5		5.4		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U		
MINERALS																			
Aluminum	ug/kg	5000		5500		<4300	U	<4500	U	<4600	U	<4600	U	<4600	U	<4700	U	<4500	U
Antimony	ug/kg	<1900	U	<1900	U	<1700	U	<1800	U	<1900	U	<1800	U	<1800	U	<1900	U	<1800	U
Arsenic	ug/kg	<930	U	<940	U	<870	U	<900	U	<930	U	<920	U	<920	U	<930	U	<900	U
Barium	ug/kg	<4700	U	<4700	U	<4300	U	<4500	U	<4600	U	<4600	U	<4600	U	<4700	U	<4500	U
Beryllium	ug/kg	<470	U	<470	U	<430	U	<450	U	<460	U	<460	U	<460	U	<470	U	<450	U
Cadmium	ug/kg	<36	U	<36	U	<33	U	<34	U	<35	U	<35	U	<35	U	<36	U	<34	U
Calcium	ug/kg	1.60E+07		1.80E+07		<430000	U	<450000	U	900000		<460000	U	6.70E+05		9.90E+05		<450000	U
Chromium	ug/kg	130		120		89		100		110		100		110		95		100	
Cobalt	ug/kg	<4700	U	<4700	U	<4300	U	<4500	U	<4600	U	<4600	U	<4600	U	<4700	U	<4500	U
Copper	ug/kg	510		630		690		670		650		670		520		600		600	
Iron	ug/kg	62000		70000		11000		8500		10000		8100		7600		9300		8400	
Lead	ug/kg	310		310		<61	U	<63	U	<65	U	<64	U	<64	U	<65	U	<63	U
Magnesium	ug/kg	<470000	U	480000		<430000	U	<450000	U	<460000	U	<460000	U	<460000	U	<470000	U	<450000	U
Manganese	ug/kg	8100		13000		<1300	U	<1400	U	<1400	U	<1400	U	<1400	U	<1400	U	<1400	U
Mercury	ug/kg	<47	U	<47	U	<43	U	<45	U	<46	U	<46	U	<46	U	<47	U	<45	U
Nickel	ug/kg	<930	U	<940	U	<870	U	<900	U	<930	U	<920	U	<920	U	<930	U	<900	U
Potassium	ug/kg	3.00E+06		3.10E+06		3.40E+06		2.90E+06		3.00E+06		3.10E+06		3.30E+06		3.60E+06		3.00E+06	
Selenium	ug/kg	730		690		330		320		320		350		340		410		350	
Silver	ug/kg	<470	U	<470	U	<430	U	<450	U	<460	U	<460	U	<460	U	<470	U	<450	U
Sodium	ug/kg	1.10E+06		1.30E+06		480000		<450000	U	490000		<460000	U	470000		560000		<450000	U
Thallium	ug/kg	<930	U	<940	U	<870	U	<900	U	<930	U	<920	U	<920	U	<930	U	<900	U
Vanadium	ug/kg	<4700	U	<4700	U	<4300	U	<4500	U	<4600	U	<4600	U	<4600	U	<4700	U	<4500	U
Zinc	ug/kg	23000	J	26000		21000		17000		23000		20000		24000		26000		17000	

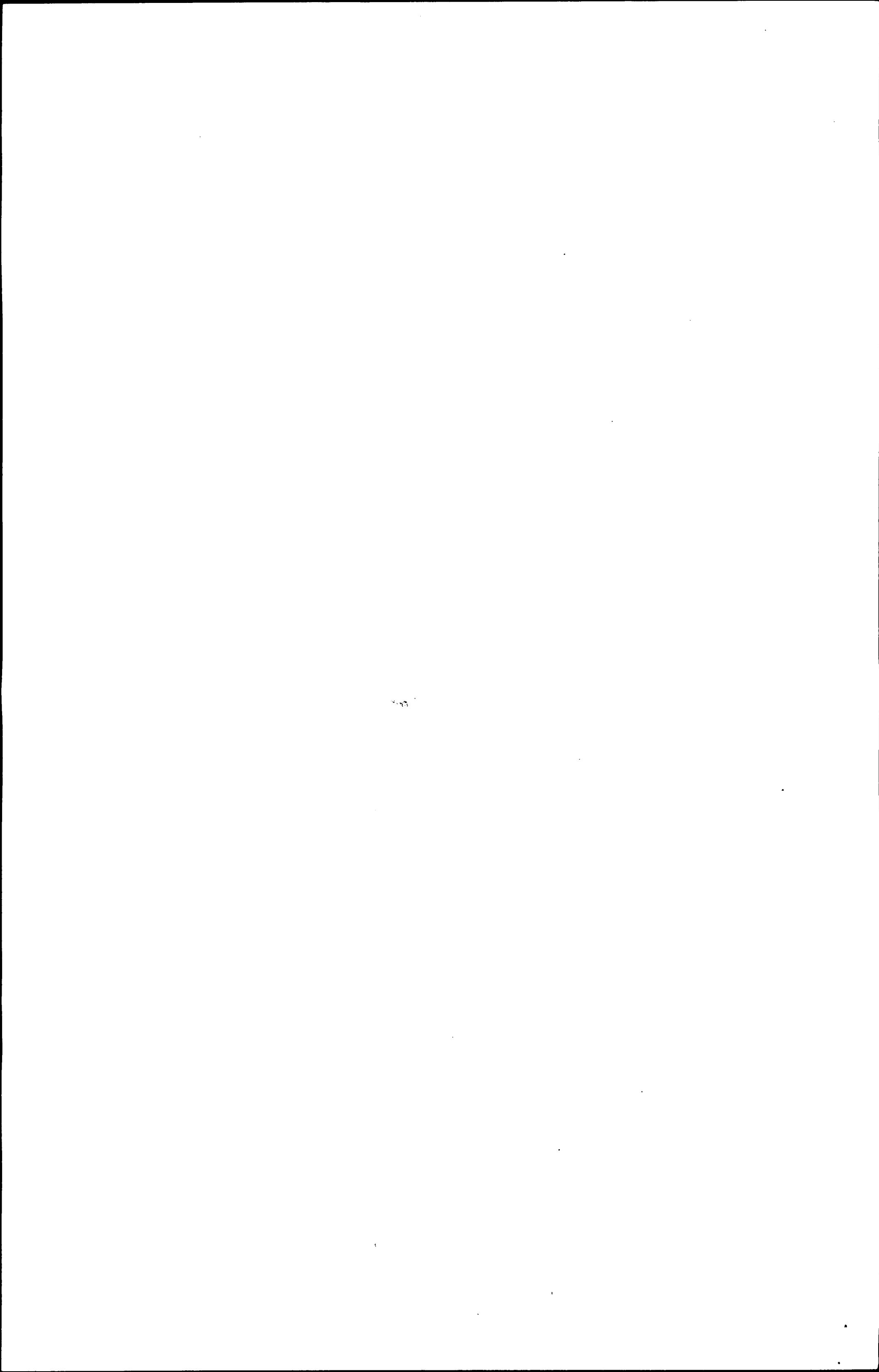


APPENDIX A

Continued



APPENDIX A



APPENDIX A
Continued

IDEM No. Species Tissue	LQ0483 Pumpkinseed Whole (20)		LQ0484 Green Sunfish Whole (20)		LQ0485 Carp Fillet (5)		LQ0486 Carp Fillet (5)		LQ0487 Goldfish Fillet(5)		LQ0488 Carp Fillet (5)		LQ0489 Carp Fillet (5)		LQ0490 Carp Fillet (5)		LQ0491* Carp Fillet (5)	
	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
Nitrobenzene	ug/kg	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	
Pentachlorophenol	ug/kg	<1700	U	<1700	U	<1700	U	<1700	U	<1700	U	<1700	U	<1700	U	<1700	U	
Phenanthrene	ug/kg	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	
Phenol	ug/kg	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	
Pyrene	ug/kg	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	<670	U	
TIC Conc (total)	ug/kg	107780	J	57840	J	30590	J	46700	J	196580	J	20400	J	24600	J	43630	J	
Unknowns Conc	ug/kg	330	J	1100	J	2300	J	1460	J	2470	J	840	J	1290	J	2580	J	

Note: UJ- = Sample results are non-detected, estimated, biased low
 U = Sample results are non-detected at recovery level listed
 J- = Sample results are estimated, biased low
 J = Samples results that are estimated
 J+ = Sample results are estimated, biased high
 C = Co-eluting congener
 K = Sample results not verified, estimated maximum analyte concentration

**2003 Indiana Fish Consumption Advisory
Streams and Rivers**

Location	Species	Fish Size (inches)	Contaminant	Group
All Indiana Rivers and Streams				
All Counties (unless specified otherwise)	Carp	15-20	• ○	3
		20-25	• ○	4
		25+	• ○	5
Anderson River Spencer County	Black Buffalo	20-25	• ○	2
		25+	•	3
	Channel Catfish	10-13	•	2
		13+	•	3
	Largemouth Bass	14-17	○	2
		17+	○	3
	White Crappie	13+	○	2
Beanblossom Creek Monroe County	Channel Catfish	Up to 13	•	2
		13+	•	3
	Spotted Sucker	14+	•	2
Big Blue River Henry County	Creek Chub	6-7	•	3
		7+	•	4
	Rock Bass	4-7	•	3
		7+	•	4
	White Sucker	8-10	•	3
		10+	•	4
Rush County Shelby County	Creek Chub	6+	•	3
	Black Redhorse	11+	•	3
	Golden Redhorse	18+	•	4
	Northern Hogsucker	9-10	•	3
		10+	•	4
Johnson County	Rock Bass	4-7	•	3
	Longear Sunfish	5+	•	3
	Northern Hogsucker	8-10	•	3
		10+	•	4
	Rock Bass	7+	•	3
	Smallmouth Bass	5-8	•	3
		8+	•	4

○ = Mercury

Group 2 = 1 meal/week

Group 4 = 1 meal/2 months

• - PCBs

Group 3 = 1 meal/month

Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Big Pine Creek Warren County	Black Redhorse	13-16	○	2
		16+	○	3
	Channel Catfish	12-17	•	2
	Smallmouth Bass	10-11	•	2
		11+	•	3
Big Raccoon Creek Parke County	Carp	19-22	○	2
		22+	○	3
	Black Redhorse	11-17	○	2
		17+	○	3
	Channel Catfish	17-22	•	3
		22+	•	4
	Spotted Bass	10-14	○	2
		14+	○	3
Big Walnut Creek Putnam County	Black Redhorse	11-14	○	2
		14+	○	3
	River Carpsucker	9-14	○	2
		14+	○	3
	Spotted Bass	9-12	○	2
		12+	○	3
Blue River Harrison County	Black Redhorse	15-17	○	2
	Carp	28-29	○	2
		29+	○	3
	Channel Catfish	15+	•	3
	Rock Bass	5-7	•	2
		7+	•	3
	Shorthead Redhorse	14-17	•	2
		17+	•	3
	Spotted Bass	8-10	• ○	2
		10+	• ○	3
Brandywine Creek Hancock County	Northern Hogsucker	8-11	○	2
		11+	○	3
Buck Creek Delaware County	Longear Sunfish	5-6	•	3
		6+	•	4

○ = Mercury

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Group 4 = 1 meal/2 months

• - PCBs

Group 3 = 1 meal/month

Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Buck Creek (Delaware County cont.)				
	Rock Bass	7+	○	2
		9+	●	2
	Smallmouth Bass	13-14	○	2
		14+	○	3
	White Sucker	12-14	●	2
		14+	●	3
Cedar Creek Monroe County	Carp	ALL	●	5
Allen County	River Chub	4+	●	3
Clear Creek				
Monroe County	ALL SPECIES	ALL	●	5
Crooked Creek				
Steuben County	Carp	23+	●	2
Deer Creek				
Putnam County	Black Redhorse	11-13	○	2
		13+	○	3
Carroll County	Black Redhorse	13-19	○	2
		19+	○	3
	Carp	Up to 19	●	2
		19+	●	3
	Carpsucker	15-17	○	2
		17+	○	3
Eagle Creek Marion County	Smallmouth Bass	10	●	2
		10+	●	3
	Channel Catfish	20-23	●	4
		23+	●	5
	White Sucker	12-13	●	2
		13+	●	3
East Fork of White Lick Creek				
Hendricks County	Creek Chub	6-9	●	2
		9+	●	3
	Northern Hogsucker	8-11	●	2
		11+	●	3
	Yellow Bullhead	8-10	●	2
		10+	●	3

○ = Mercury Group 2 = 1 meal/week Group 4 = 1 meal/2 months
 ● - PCBs Group 3 = 1 meal/month Group 5 = DO NOT EAT
 (Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
East Fork of White Lick Creek (cont)				
Morgan County	Creek Chub	7+	●	2
East Fork of White River				
Bartholomew County	Golden Redhorse	8-13	●	2
		13+	●	3
	Silver Redhorse	16-18	●	3
		18+	●	4
Jackson County	Freshwater Drum	17-18	○	2
		18+	○	3
	Golden Redhorse	14-16	●	3
		16+	●	4
	Silver Redhorse	20-22	●	2
		22+	●	3
Lawrence County	Smallmouth Buffalo	19-26	●	3
		26+	●	4
	Bigmouth Buffalo	18+	● ○	3
	Carp	22+	● ○	5
	Channel Catfish	15-21	● ○	4
		21+	● ○	5
	Freshwater Drum	12-15	●	4
		15+	●	5
	Bigmouth Buffalo	18+	○	4
	Flathead Catfish	10-16	●	3
		16+	●	4
	Largemouth Bass	11-14	●	4
		14+	●	5
	River Carpsucker	13+	●	5
	Sauger	14+	● ○	3
	Shorthead Redhorse	14-16	●	4
		16+	●	5
	Smallmouth Buffalo	15+	●	5
	Spotted Bass	10+	● ○	2
	Spotted Sucker	17+	●	3

○ = Mercury Group 2 = 1 meal/week Group 4 = 1 meal/2 months
 ● - PCBs Group 3 = 1 meal/month Group 5 = DO NOT EAT
 (Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
East Fork of White River				
Lawrence County(cont)	Striped Bass	22+	•	4
Martin County	Channel Catfish	12-14	•	3
		14+	•	4
	Freshwater Drum	10-12	•	3
		12+	•	4
	Longear Sunfish	6+	•	3
	Shorthead Redhorse	14-16	•	4
		16+	•	5
	Smallmouth Buffalo	19+	•	3
East Fork of Whitewater River				
Wayne County	Channel Catfish	12-18	•	3
		18+	•	4
	Smallmouth Bass	8-11	•	4
		11+	•	5
Union County	Creek Chub	4-5	○	2
		5+	○	3
Eel River (West Fork White River Basin)				
Clay County	River Carpsucker	15+	○	2
Greene County	Spotted Sucker	12+	○	2
	Bigmouth Buffalo	18-20	○	2
		20+	○	3
	Channel Catfish	18+	• ○	2
	Freshwater Drum	14-16	○	2
		16+	○	3
	Sauger	18+	•	3
Eel River (Upper Wabash River Basin)				
Whitley County	Bluegill	4-6	•	3
		6+	•	4
	Carp	11-20	• ○	2
		20+	• ○	3
	Northern Hogsucker	7-10	•	3
		10+	•	4

O = Mercury Group 2 = 1 meal/week Group 4 = 1 meal/2 months
 • - PCBs Group 3 = 1 meal/month Group 5 = DO NOT EAT
 (Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Eel River (Upper Wabash River Basin) (cont)				
Whitley County (cont)	Rock Bass	7-8	○	2
		8+	○	3
	White Sucker	8-12	•	2
		12+	•	3
	Northern Hogsucker	8+	•	3
Miami County	Northern Hogsucker	9-12	○	2
		12+	○	3
	Rock Bass	6-7	○	2
		7+	○	3
	Smallmouth Bass	10+	•	3
Cass County	Northern Hogsucker	8-11	○	2
		11+	○	3
	Rock Bass	7-9	○	2
		9+	○	3
Elkhart River	Rock Bass	7-9	•	2
Elkhart County		9+	•	3
	Smallmouth Bass	11-17	• ○	2
		17+	• ○	3
	White Sucker	14-16	• ○	2
		16+	• ○	3
Elliot Ditch	ALL SPECIES	ALL	•	5
Tippecanoe County				
Fall Creek	Black Redhorse	13-17	○	2
Madison County		17+	○	3
	Carp	19-22	• ○	3
		22+	• ○	4
	Channel Catfish	Up to 22	•	3
		22+	•	4
	Rock Bass	5-7	•	2
		7+	•	3

O = Mercury Group 2 = 1 meal/week Group 4 = 1 meal/2 months
 • - PCBs Group 3 = 1 meal/month Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Fall Creek (cont)				
Madison County (cont)	Smallmouth Bass	6-14	O	2
		15-17	O	3
		17+	O	4
	White Sucker	12-16	O	2
		16+	O	3
Fall Creek (Upstream of Geist Reservoir)				
Hamilton County	Carp	16-23	•	2
		23+	•	3
	Channel Catfish	Up to 25	•	2
		25+	•	3
Marion County	Largemouth Bass	12-18	O	2
		18+	O	3
	Carp	Up to 20	•	4
		20+	•	5
	Channel Catfish	Up to 18	•	3
		18-20	•	4
		20+	•	5
	Largemouth Bass	14+	•	3
	Spotted Bass	15+	•	2
	Northern Hogsucker	8-13	O	2
		13+	O	3
	Longear Sunfish	4-6	O	2
		6+	O	3
	Rock Bass	5-8	O	2
		8+	O	3
	Shelby County	Rock Bass	5-8	• O
		8+	• O	3
Galena River (South Branch)				
LaPorte County	Creek Chub	5-7	•	3
Grassy Creek	Largemouth Bass	Up to 14	O	2
Kosciusko County		14+	O	3

O = Mercury Group 2 = 1 meal/week

• - PCBs Group 3 = 1 meal/month

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Great Miami River	Carp	16-20	•	4
Dearborn County		20+	•	5
	Channel Catfish	15+	•	5
	Largemouth Bass	15-18	• O	2
		18+	• O	3
	White Crappie	8-11	•	3
		11+	•	4
Greens Fork				
Wayne County	Creek Chub	7+	O	2
Honey Creek	Largemouth Bass	Up to 20	• O	2
White County		20+	• O	3
Indian Creek	Rock Bass	6-8	O	2
Harrison County		8+	O	3
Iroquois River				
Jasper County	Carp	28+	•	3
Newton County	Carp	28+	•	3
Juday Creek	White Sucker	12-17	•	2
St. Joseph County		17+	•	3
Kankakee River	Bigmouth Buffalo	16-22	O	2
LaPorte County		22+	O	3
	Channel Catfish	17+	•	3
	Northern Pike	15+	•	2
	Quillback	15-16	•	3
	Shorthead Redhorse	13-17	• O	3
		17+	• O	4
Lake County	Bigmouth Buffalo	18-24	• O	2
		24+	• O	3
	Carp	20-22	•	2
		22+	•	3
	Northern Pike	31+	•	2
	Quillback	13-15	•	2
		15+	•	3

O = Mercury

Group 2 = 1 meal/week

• - PCBs

Group 3 = 1 meal/month

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Kankakee River (cont)				
Lake County (cont)	Shorthead Redhorse	14-16	•	2
		16-19	•	3
		19+	•	4
	Silver Redhorse	18-20	•	2
		20+	•	3
	Smallmouth Buffalo	18-22	• ○	2
		22-28	• ○	3
		28-32	• ○	4
		32+	• ○	5
Killbuck Creek	Carp	19-23	•	2
		23+	•	3
	Largemouth Bass	16+	○	3
	Longear Sunfish	5-6	•	3
		6+	•	4
	Smallmouth Bass	Up to 13	•	2
		13+	•	3
Kokomo Creek Howard County	ALL SPECIES		ALL	• 5
	Carp	21+	• ○	2
Laughery Creek Ripley County	Channel Catfish	17+	○	2
	Freshwater Drum	16-17	○	2
		17+	○	3
	Rock Bass	7-9	○	2
		9+	○	3
	White Sucker	9+	○	2
	Carp	21+	• ○	2
		17+	○	2
	Rock Bass	7-9	○	2
		9+	○	3
Dearborn County	White Sucker	9+	○	2

○ = Mercury

Group 2 = 1 meal/week

Group 4 = 1 meal/2 months

• - PCBs

Group 3 = 1 meal/month

Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Laughery Creek Ohio County	Carp	21+	• ○	2
	Channel Catfish	17+	○	2
	Flathead Catfish	19-22	○	2
		22+	○	3
	Freshwater Drum	16-17	○	2
		17+	○	3
Little Blue River (Ohio River Basin) Crawford County	Rock Bass	7-9	○	2
	White Sucker	9+	○	3
		9+	○	2
	Channel Catfish	16+	•	3
	Freshwater Drum	16-18	• ○	2
		18+	• ○	3
Little Blue River Shelby County	Largemouth Bass	11-18	• ○	2
	Redear Sunfish	18+	• ○	3
		8-9	○	2
	Sauger	9+	○	3
		11-14	•	2
	Northern Hogsucker	14+	• ○	3
Little Mississinewa River Randolph County		8-11	•	2
ALL SPECIES	11+	•	3	
	ALL	•	5	
Little Pigeon Creek Warrick County	Bluegill	Up to 5		1
	Channel Catfish	16-17	•	2
		17+	•	3
	Freshwater Drum	19+	•	3
		11+	•	3
	Sauger	18+	•	3
Little Sugar Creek/Walnut Fork* (Middle Wabash Basin)				
Montgomery County	ALL SPECIES	ALL	• ○	5

*Walnut Fork includes the lower portion from the confluence of Little Sugar Creek to its confluence with Sugar Creek.

○ = Mercury Group 2 = 1 meal/week Group 4 = 1 meal/2 months

• - PCBs Group 3 = 1 meal/month Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Little Sugar Creek (East Fork White River Basin)				
Hancock County	Creek Chub	ALL	• O	3
Maumee River	Bigmouth Buffalo	20+	•	3
Allen County	Carp	20-22	•	5
	Channel Catfish	14-16	•	3
		16+	•	4
	Largemouth Bass	9+	•	3
	River Redhorse	12-14	• O	3
		14+	• O	4
	Rock Bass	7-8	•	3
		8+	•	4
	Sauger	15-24	• O	2
		24+	• O	3
	Shorthead Redhorse	14-16	• O	3
		16+	• O	4
	Walleye	21+	•	5
Mississinewa River	Carp	17+	•	5
Randolph County	Channel Catfish	15+	•	5
	Green Sunfish	3+	•	5
	Longear Sunfish	3-5	•	3
		5+	•	4
	White Crappie	8-10	•	3
		10+	•	4
Delaware County	Bluegill	6+	•	2
	Green Sunfish	4-6	•	2
		6+	•	3
	Rock Bass	6-7	• O	2
		7+	• O	3
Grant County	Carp	14-19	•	3
	Channel Catfish	11-13	• O	2
		13+	• O	3
	Largemouth Bass	8-11	•	2
		11+	•	3
	White Crappie	8-11	O	2
		11+	O	3

O = Mercury

Group 2 = 1 meal/week

Group 4 = 1 meal/2 months

• - PCBs

Group 3 = 1 meal/month

Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Mississinewa River				
Miami County	Carp	19-20	•	2
Muddy Fork of Sand Creek				
Decatur County	Black Redhorse	12-15	O	2
		15+	O	3
	Largemouth Bass	6-11	•	3
		11+	•	4
	Northern Hogsucker	6-10	•	3
		10+	•	4
	White Sucker	10-13	O	2
		13+	O	3
Muscatatuck River	Bigmouth Buffalo	17-26	• O	2
Washington County		26+	• O	3
	Smallmouth Buffalo	22-23	• O	2
		23+	• O	3
Otter Creek	Black Redhorse	10-14	•	2
Vigo County		14+	•	3
	Golden Redhorse	14+	• O	2
	Spotted Bass	8-13	O	3
		13+	O	4
Patoka River	Bigmouth Buffalo	16-21	O	2
Dubois County		21+	O	3
	Carp	19+	• O	2
	Channel Catfish	Up to 19	•	2
		19+	•	3
	Freshwater Drum	13-17	O	2
		17+	O	3
	Largemouth Bass	14+	O	2
Pike County	Bigmouth Buffalo	19+	O	2
	Black Buffalo	19+	O	2
	Freshwater Drum	21-22	• O	2
		22+	• O	3
	Smallmouth Buffalo	19+	O	2

O = Mercury

Group 2 = 1 meal/week

Group 4 = 1 meal/2 months

• - PCBs

Group 3 = 1 meal/month

Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Patoka River (cont)				
Gibson County	Black Buffalo	24-25	• ○	2
		25+	• ○	3
	Carp	19+	• ○	2
	Channel Catfish	16-18	•	2
		18+	•	3
	Flathead Catfish	Up to 20	• ○	2
		20+	• ○	3
	Freshwater Drum	14-16	○	2
		16+	○	3
	Smallmouth Buffalo	22+	○	2
Pigeon Creek (St. Joseph River Basin)				
Steuben County	Carp	21-25	•	3
		25+	•	4
	White Sucker	11-14	○	2
		14+	○	3
Pigeon Creek (Ohio River Basin)				
Vanderburgh County	Channel Catfish	15-18	•	4
		18+	•	5
	Freshwater Drum	17-19	• ○	2
		19+	•	3
	Largemouth Bass	13+	•	2
	White Crappie	12+	•	2
Pipe Creek	Longear Sunfish	4+	•	2
Madison County	White Sucker	9-12	•	2
		12+	•	3
Pleasant Run Creek				
Lawrence County	ALL SPECIES	ALL	•	5
Prairie Creek				
Boone County	Creek Chub	6-7	•	3

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Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Richland Creek	Black Redhorse	11-13	• ○	2
Monroe and Owen Counties	Creek Chub	5-7	•	3
		7+	•	4
	Longear Sunfish	4-6	•	2
		6+	•	3
	Rock Bass	6-7	• ○	2
		7+	• ○	3
	White Sucker	8-11	• ○	3
		11+	• ○	4
Greene County	Black Redhorse	10-15	○	2
		15+	• ○	3
	Freshwater Drum	10-15	○	2
		15+	• ○	3
	Largemouth Bass	Up to 13	○	2
		13+	• ○	3
	Rock Bass	6-7	○	2
		7+	○	3
	Spotted Bass	10-12	○	2
		12+	• ○	3
Salt Creek Monroe County** (tailwaters of Monroe Reservoir Dam to Clear Creek)				
	Bluegill	7+	•	2
	Freshwater Drum	16+	•	5
	Striped Bass	12+	•	3
	Walleye	15-21	•	3
		21+	•	4
	White Crappie	7+	•	2
	Yellow Bass	8+	•	2

**This listing is based on limited data. It should be noted that fish migrate. Fish not sampled from these waters may migrate from the confluence of Clear Creek and Salt Creek, 1.3 miles south. Those water bodies have No Consumption advisories. Future sampling of the Salt Creek tailwaters below the Monroe Reservoir Dam is planned for more comprehensive results.

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• - PCBs Group 3 = 1 meal/month Group 5 = DO NOT EAT

(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Salt Creek Monroe County (confluence of Clear Creek to Lawrence County)				
	ALL SPECIES	ALL	• ○	5
Lawrence County	ALL SPECIES	ALL	• ○	5
Salt Creek				
Porter County	White Sucker	11+	•	2
Sand Creek				
Decatur County	Black Redhorse	14+	○	2
	Northern Hogsucker	10-12	•	3
		12+	•	4
	Spotted Sucker	13-14	○	2
		14+	○	3
	White Sucker	8-11	○	2
		11+	○	3
	Yellow Bullhead	10-12	•	3
		12+	•	4
Jennings County	Rock Bass	6-9	○	2
		9+	○	3
	Spotted Bass	8-12	○	2
		12+	○	3
	Yellow Bullhead	8-11	○	2
		11+	○	3
Silver Creek				
Union County	Creek Chub	6-7	○	2
		7+	○	3
Silver Creek				
Floyd County	Carp	21-25	•	3
	Carp	25+	•	4
	Channel Catfish	17-20	•	3
		20+	•	4
	Freshwater Drum	15-18	• ○	2
		18+	• ○	3
	Smallmouth Bass	15+	•	2
South Fork Blue River				
Washington County	Rock Bass	6-8	○	2
		8+	○	3

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Location	Species	Fish Size (inches)	Contaminant	Group
Stony Creek				
Hamilton County	ALL SPECIES	ALL	•	5
Stouts Creek				
Monroe County	Creek Chub	4-8	• ○	2
		8+	• ○	3
St. Joseph River (Lake Erie Basin)				
Allen County	Black Crappie	9-11	•	3
		11+	•	4
	Black Redhorse	13-16	•	3
		16+	•	4
	Channel Catfish	13-14	•	3
		15-20	•	4
		20+	•	5
	Golden Redhorse	12-13	•	3
		13+	•	4
	Rock Bass	7-9	•	3
		9+	•	4
St. Joseph River (Lake Michigan Basin)				
Elkhart County	Black Redhorse	13-17	○	2
		17+	○	3
	Carp	25-28	•	3
		28+	•	4
	Channel Catfish	16-29	•	2
		29+	•	3
	Golden Redhorse	15-17	•	2
		17+	•	3
	Largemouth Bass	13-14	○	2
		14+	○	3
	Northern Hogsucker	13-15	•	2
		15+	•	3
	Rock Bass	7+	○	2
	Shorthead Redhorse	15-17	•	3
		17+	•	4

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Location	Species	Fish Size (inches)	Contaminant	Group
St. Joseph River (Lake Michigan Basin) (cont)				
Elkhart County (cont)	Smallmouth Bass	10-11	•	2
		11+	•	3
	Walleye	15-16	• O	2
		16+	• O	3
St. Joseph County	Black Redhorse	16-18	•	3
		18+	•	4
	Carp	20+	•	5
	Channel Catfish	22+	• O	4
	Golden Redhorse	13-22	•	3
		22+	•	4
	Largemouth Bass	11-14	•	2
		14+	•	3
	Quillback	18+	•	3
	Rock Bass	7-8	•	2
		8+	•	3
	Shorthead Redhorse	15-19	• O	3
		19+	• O	4
	Smallmouth Bass	7-9	• O	2
		9+	• O	3
	Steelhead	25-26	•	3
		26+	•	4
	White Sucker	14-16	•	3
		16+	•	4
St. Mary's River	Bigmouth Buffalo	20-25	• O	3
Allen County		25+	• O	4
	Black Redhorse	12-15	• O	2
		15+	• O	3
	Carp	16+	•	5
	Channel Catfish	13-15	•	3
		15+	•	4
	Largemouth Bass	Up to 15	• O	3
		15+	• O	4

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(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
St. Mary's River (cont)				
Allen Co. (cont)	Quillback	9-14	• O	2
		14+	• O	3
	Silver Redhorse	17+	• O	3
	White Sucker	8-11	• O	2
		11+	• O	3
Sugar Creek (East Fork White River Basin)				
Hancock County	Black Redhorse	11-13	O	2
		13+	O	3
Johnson County	Carp	27+	•	3
	Flathead Catfish	17+	•	3
	Spotted Bass	13+	O	2
Sugar Creek (Middle Wabash River Basin) Montgomery County				
County Rd. 275 E	Smallmouth Bass	9-14	• O	2
I-74 to SR 32	ALL SPECIES	ALL	•	5
U.S. 231	Black Redhorse	11-13	•	4
		13+	•	5
	Channel Catfish	12-14	•	4
		14+	•	5
	Freshwater Drum	13+	•	5
	Rock Bass	6-9	•	4
		9+	•	5
	Smallmouth Bass	9-11	•	5
Deer Mill Bridge	Channel Catfish	13-20	•	3
	Flathead Catfish	26+	•	4
	Rock Bass	6-8	•	3
	Shorthead Redhorse	13-15	•	3
	Smallmouth Bass	10-15	•	3
Shades State Park	Black Redhorse	14-16	•	4
		16+	•	5
	Rock Bass	7+	•	3
	Smallmouth Bass	7-11	•	2
		11-15	•	3
		15+	•	4

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Location	Species	Fish Size (inches)	Contaminant	Group
Sugar Creek (Middle Wabash River Basin) (cont)				
Parke County	Black Redhorse	12-16	•	3
		16+	•	4
	Smallmouth Bass	8-11	•	2
		11+	• O	3
	Channel Catfish	12-13	•	3
		13+	• O	4
	Northern Hogsucker	12-14	• O	3
	Freshwater Drum	16+	• O	3
	Sauger	21+	• O	3
Tanners Creek	Bluegill	Up to 5		1
Dearborn County	Carp	19-21	• O	2
		21+	• O	3
	Largemouth Bass	9-17	• O	2
		17+	• O	3
	Sauger	12+	O	2
Tippecanoe River	Bluegill	6+	O	2
Kosciusko County	Redhorse	17-18	•	3
		18+	•	4
	River Redhorse	17+	O	3
	Rock Bass	5+	O	2
Marshall County	Rock Bass	9-10	O	2
		10+	O	3
Fulton County	Channel Catfish	12-23	• O	2
		23+	• O	3
	Northern Hogsucker	7-12	O	2
		12+	O	3
	Spotted Suckers	13+	O	2
	Golden Redhorse	15-16	• O	2
		16+	• O	3
	Carp	30-31	• O	2

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(Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
Tippecanoe River (cont)				
Pulaski County	Black Redhorse	16-17	•	3
		17+	•	4
	Channel Catfish	11-12	• O	2
		12+	• O	3
	Longear Sunfish	3-5	O	2
		5+	O	3
	Northern Hogsucker	13-15	O	2
		15+	O	3
Carroll County	Carp	21-22	•	2
Trail Creek	Bluegill	Up to 7		1
LaPorte County	Carp	23-25	•	5
Wabash River				
Adams County	Carp	17-19	•	2
Wells County	Carp	17-19	•	2
		19+	•	3
	Channel Catfish	13-19	• O	3
		19+	• O	4
	Golden Redhorse	18+	O	2
	Rock Bass	7-10	O	2
		10+	O	3
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
	White Crappie	Up to 9		1
		9+	O	2
	Yellow Perch	6-7	O	2
Huntington County		7+	O	3
	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-16	• O	3
		16+	• O	4

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Location	Species	Fish Size (inches)	Contaminant	Group
Wabash River (cont)				
Huntington Co. (cont)	Freshwater Drum	12-18	•	3
		18+	•	4
	Largemouth Bass	12-14	○	3
		14+	○	4
	Carp	18-21	• ○	2
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
Wabash County	Black Redhorse	16-19	○	2
		19+	○	3
	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	○	2
		19+	○	3
Miami County	Freshwater Drum	12-18	•	3
		18+	•	4
	Quillback	12-16	○	2
		16+	○	3
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
	White Bass	11-21	• ○	3
		21+	• ○	4
	Blue Sucker	21-26	•	3

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Location	Species	Fish Size (inches)	Contaminant	Group
Wabash River (cont)				
Miami Co. (cont.)	Quillback	13-17	○	2
		17+	○	3
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	○	5
Cass County	Black Redhorse	16-19	○	2
		19+	○	3
	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	• ○	2
		19+	• ○	3
Carroll County	Freshwater Drum	12-18	•	3
		18+	•	4
	Quillback	13-19	○	2
		19+	○	3
	Sauger	13-19	• ○	2
		19+	• ○	3
	Smallmouth Bass	12-16	○	2
		16+	○	3
	Smallmouth Buffalo	25+	•	5
	Walleye	16+	○	2
Miami County	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	• ○	2
		19+	• ○	3
	Freshwater Drum	12-18	•	3
		18+	•	4
Miami County	River Redhorse	23-26	○	2
		26+	○	3
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5

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Location	Species	Fish Size (inches)	Contaminant	Group
Wabash River (cont)				
Tippecanoe County	Bigmouth Buffalo	17-20	•	2
		20+	•	3
	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	11-15	•	3
		15+	• O	4
	Flathead Catfish	15-24	• O	2
		24+	• O	3
	Freshwater Drum	12-18	• O	3
		18+	• O	4
	Golden Redhorse	20+	•	3
	Largemouth Bass	9-14	O	2
		14+	O	3
	Paddlefish	34+	•	3
	Quillback	13-19	•	4
		19+	•	5
	River Redhorse	16-19	• O	2
		19+	• O	3
	River Carpsucker	14-16	•	3
Fountain County	Sauger	13-19	• O	4
		19+	• O	5
	Smallmouth Bass	9-12	•	3
		12+	•	4
	Smallmouth Buffalo	25+	•	5
	White Bass	6-11	O	2
		11+	O	3
	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	•	3

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Location	Species	Fish Size (inches)	Contaminant	Group
Wabash River (cont)				
Fountain Co. (cont)	Freshwater Drum	12-18	•	3
		18+	•	4
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
	Bigmouth Buffalo	18+	•	3
	Bigmouth Buffalo	21-24	•	3
		24+	•	4
	Blue Sucker	21-26	• O	3
		26+	• O	4
Vermillion County	Carpsucker	10-17	• O	2
		17+	• O	3
	Channel Catfish	13-19	• O	3
		19+	• O	4
	Flathead Catfish	10-20	• O	2
		20+	• O	3
	Freshwater Drum	12-18	•	3
		18+	•	4
	Sauger	13-19	• O	4
		19+	•	5
Vigo County	Shovelnose Sturgeon	30+	•	3
	Smallmouth Buffalo	25+	• O	5
	White Bass	13+	• O	3
	Wiper	10-12	•	3
		12+	•	4
	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	• O	3
		19+	• O	4
Sullivan County				

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Location	Species	Fish Size (inches)	Contaminant	Group
Wabash River (cont)				
Sullivan Co. (cont)	Flathead Catfish	16-31	• ○	3
		31+	• ○	4
	Freshwater Drum	12-18	•	2
		18+	•	3
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
Knox County	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	•	2
		19+	•	3
	Freshwater Drum	12-18	• ○	3
		18+	• ○	4
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
Gibson County	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	• ○	2
		19+	• ○	3
	Freshwater Drum	12-18	• ○	2
		18+	• ○	3
	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
Posey County	Blue Sucker	21-26	•	3
		26+	•	4
	Channel Catfish	13-19	•	2
		19+	•	3
	Flathead Catfish	11-19	• ○	2
		19+	• ○	3

Location	Species	Fish Size (inches)	Contaminant	Group
Wabash River (cont)				
Posey Co. (cont)	Sauger	13-19	•	4
		19+	•	5
	Smallmouth Buffalo	25+	•	5
	White Bass	11-21	• ○	3
		21+	• ○	4
	Wiper	13+	•	3
Wea Creek				
Tippecanoe County	ALL SPECIES	ALL	•	5
West Fork of White River				
Randolph County	Black Redhorse	13+	○	2
	Bluegill	6+	○	2
	Carp	18-22	•	2
		22+	•	3
	Channel Catfish	14-16	•	3
		16+	•	4
	Creek Chub	7-8	• ○	2
		8+	• ○	3
	Largemouth Bass	9+	•	2
	Longear Sunfish	3-5	•	2
		5+	•	3
	Quillback	13-18	•	3
		18+	•	4
	Smallmouth Bass	12+	• ○	2
	Spotted Sucker	11-13	•	3
		13+	•	4
	White Sucker	11+	○	2
Delaware County	Black Bullhead	Up to 9	•	2
		9+	•	3
	Black Redhorse	14-16	•	3
		16+	•	4

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 (Women and children see advisory groups on Page 3 and Health Risks on Page 7)

Location	Species	Fish Size (inches)	Contaminant	Group
West Fork of White River (cont)				
Delaware Co. (cont)	Channel Catfish	14-16	•	3
		16+	•	4
	Largemouth Bass	10-15	• ○	3
		15+	• ○	4
	Quillback	13-18	•	3
		18+	•	4
	Rock Bass	8+	•	2
	Smallmouth Bass	10-13	• ○	2
		13+	• ○	3
	Spotted Sucker	11-13	•	3
		13+	•	4
	White Sucker	10-15	•	2
		15+	•	3
Madison County	Green Sunfish	4-6	•	2
		6+	•	3
	Longear Sunfish	5+	•	2
	Rock Bass	6+	•	2
	Spotted Sucker	11+	•	3
Hamilton County	Carp	17-20	•	4
		20+	•	5
	Largemouth Bass	11-17	• ○	3
		17+	• ○	4
	Longear Sunfish	4-9	•	3
		9+	•	4
	Quillback	13-18	•	3
		18+	•	4
Marion County (Upstream of Broad Ripple Dam)	Largemouth Bass	11-16	•	3
		16+	•	4
Marion County (Downstream of Broad Ripple Dam)	Bluegill	Up to 6		1
	Carp	19+	•	5

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Location	Species	Fish Size (inches)	Contaminant	Group
West Fork of White River (cont)				
Marion County (Downstream of Broad Ripple Dam) (cont)	Channel Catfish	12-17	•	3
		17+	•	4
	Flathead Catfish	13-15	• ○	3
		15+	• ○	4
	Largemouth Bass	10-17	• ○	2
		17+	•	3
	River Carpsucker	14-17	•	3
		17+	•	4
	Quillback	13-18	•	3
		18+	•	4
	Smallmouth Bass	9-11	•	2
		11+	•	3
	Spotted Bass	11-13	•	3
		13+	•	4
Morgan County	Black Redhorse	15-16	•	3
		16+	•	4
	Carp	16-27	•	3
		27+	•	4
	Channel Catfish	18-22	•	3
		22+	•	4
	Flathead Catfish	Up to 30	•	4
		30+	•	5
	Gizzard Shad	10+	•	2
	Largemouth Bass	15-16	•	2
		16+	•	3
	Quillback	13-18	•	3
		18+	•	4
	River Carpsucker	14-17	•	3
	Smallmouth Bass	15-17	•	3
		17+	•	4

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Location	Species	Fish Size (inches)	Contaminant	Group
West Fork of White River (cont)				
Morgan Co. (cont)	Spotted Bass	11-13	•	3
		13+	•	4
Owen County	Spotted Sucker	11-13	•	3
		13+	•	4
Owen County	Bigmouth Buffalo	16-24	• O	2
		24+	• O	3
Owen County	Channel Catfish	13-15	•	2
		15+	•	3
Owen County	Freshwater Drum	13-15	• O	2
		15+	•	3
Owen County	Quillback	13-18	•	3
		18+	•	4
Owen County	River Carpsucker	13-15	• O	2
		15+	•	3
Owen County	Sauger	Up to 14	•	3
		14+	•	4
Owen County	Spotted Bass	10-11	• O	2
		11+	•	3
Owen County	Spotted Sucker	11-13	•	3
		13+	•	4
Owen County	White Bass	14-15	• O	3
		15+	• O	4
Greene County	Bigmouth Buffalo	Up to 20	•	2
		20+	•	3
Greene County	Channel Catfish	14-16	•	3
		16+	•	4
Greene County	Quillback	13-18	•	2
		18+	•	3
Greene County	River Carpsucker	13-15	•	2
		15+	•	3
Greene County	Spotted Sucker	11-13	•	3
		13+	•	4

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Location	Species	Fish Size (inches)	Contaminant	Group
West Fork of White River (cont)				
Daviess County	Bigmouth Buffalo	17-19	•	2
		19+	•	3
Pike County	Channel Catfish	14-18	•	2
		18+	•	3
White River	Flathead Catfish	11-14	• O	2
		14+	• O	3
Pike County	Quillback	13-18	•	3
		18+	•	4
Pike County	River Carpsucker	16+	•	2
		11-13	•	3
Pike County	Spotted Sucker	13+	•	4
		14-15	• O	3
Pike County	White Bass	15+	• O	4
		21-25	• O	2
Pike County	Bigmouth Buffalo	25+	• O	3
		14-18	•	2
Pike County	Channel Catfish	18+	•	3
		9-16	•	2
Pike County	Flathead Catfish	16+	•	3
		13+	• O	2
Pike County	Freshwater Drum	18+	•	3
		13-18	•	4
Pike County	Quillback	16+	•	2
		7-12	O	2
Pike County	Smallmouth Bass	12+	O	3
		18-22	•	3
Pike County	Smallmouth Buffalo	22+	•	4
		9+	•	3
Pike County	Spotted Bass	11-13	•	3
		13+	•	4

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Location	Species	Fish Size (inches)	Contaminant	Group
White River (cont)				
Gibson County	Bigmouth Buffalo	21-25	• O	2
		25+	• O	3
	Channel Catfish	14-18	•	2
		18+	•	3
	Flathead Catfish	9-16	•	2
		16+	•	3
	Freshwater Drum	13+	• O	2
	Largemouth Bass	11-17	O	2
		17+	O	3
	Quillback	13-18	•	3
		18+	•	4
	River Carpsucker	16+	•	2
	Smallmouth Bass	7-12	O	2
		12+	O	3
	Smallmouth Buffalo	18-22	•	3
		22+	•	4
	Spotted Bass	9+	•	3
	Spotted Sucker	11-13	•	3
		13+	•	4
White Lick Creek				
Hendricks County	Channel Catfish	21-22	• O	2
		22+	• O	3
	Smallmouth Bass	8-14	• O	2
		14+	• O	3
Morgan County	Black Redhorse	14+	•	2
	Channel Catfish	20-22	• O	2
		22+	•	3
	Largemouth Bass	12+	•	2
	Smallmouth Bass	8-12	•	2
		12+	•	3

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Location	Species	Fish Size (inches)	Contaminant	Group
Whitewater River				
Dearborn County	Black Redhorse	14-16	• O	2
		16+	• O	3
	Channel Catfish	15-23	• O	3
		23+	• O	4
	Freshwater Drum	14-15	• O	2
		15+	• O	3
Wildcat Creek				
Howard County (Upstream of the Waterworks Dam in Kokomo)	Bluegill	Up to 6		1
Howard County (Downstream of the Waterworks Dam in Kokomo)	ALL SPECIES	ALL	•	5
Carroll County	ALL SPECIES	ALL	•	5
Tippecanoe County	Freshwater Drum	10-12	•	4
		12+	•	5
	Golden Redhorse	12-14	•	3
		14+	•	4
	Quillback	12-13	•	3
		13+	•	4
	White Bass	7-8	•	2
		8+	•	3
	Channel Catfish	10-16	•	3
		16+	•	4
	Spotted Bass	8+	•	3
Young's Creek				
Johnson County	Northern Hogsucker	7-10	•	2
		10+	•	3

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